

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Yasuhiro ISOGAI et al.  
Title: PORPHYRIN COMPOUND CONTAINING  
BIOTINYL GROUP AND USE THEREOF  
Appl. No.: Unassigned  
Filing Date: Herewith  
Examiner: Unassigned  
Art Unit: Unassigned

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the date of entry of the national stage as set forth in 37 CFR §1.491.

**RELEVANCE OF EACH DOCUMENT**

All of the documents listed on the attached PTO/SB/08 were cited as being relevant during the prosecution of the corresponding International application. Copies of the documents are not being provided since copies should have been provided directly by WIPO under an exchange program between the PTO, the EPO and the JPO. A copy of the International Search Report is attached setting forth the portion of each document considered relevant by the examiner.

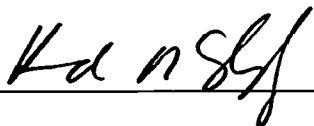
Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date October 20, 2005

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10/553834  
MODIFIED PTO/SB/08 (08-00)Approved for use through 10/31/2002. OMB 0651-0031  
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Substitute for form 1449B/PTO		JUL 09 2005 PTO 20 OCT 2005	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<b>Application Number</b>	Unassigned
<b>Date Submitted: October 20, 2005</b>		<b>Filing Date</b>	Herewith
<b>(use as many sheets as necessary)</b>		<b>First Named Inventor</b>	Yasuhiro ISOGAI
		<b>Group Art Unit</b>	Unassigned
		<b>Examiner Name</b>	Unassigned
		<b>Attorney Docket Number</b>	023312-0117
Sheet	1	of	1

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A1	JP	11-160313	A	Packared Instrument B.V.	06/18/1999		
	A2	PCT	WO 03/16330	A2	Seda Research and Development Co., Ltd.	02/27/2003		

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>6</sup>
	A3	FUKUSHIMA, H. et al., "Self-assembly of avidin and streptavidin with multifunctional biotin molecules", Thin Solid Films, 1994, Vol. 244, No. 1-2, pgs. 789-793.		
	A4	FUKUSHIMA, H. et al., "Synthesis and monolayer behavior of a tetrabiotinylated porphyrin ligand", Langmuir, 1995, Vol. 11, No. 9, pgs. 3523-3528.		
	A5	FUKUSHIMA, H. et al., "The specific adsorption of streptavidin to a tetrabiotinylated porphyrin monolayer at the air-water interface", Thin Solid Films, 1995, Vol. 266, No. 2, pgs. 289-291.		
	A6	ISHIDA, Manabu et al., "Analytical Biochemistry", Vol. 321, No. 1, pgs. 138-141.		

Examiner Signature	Brian McDowell/	Date Considered	12/11/2008
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\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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